

The floods in the lower Rio Grande and the upper Willamette were well forecast and without serious consequence.

EFFECT OF WEATHER ON CROPS AND FARMING OPERATIONS, NOVEMBER, 1926

By J. B. KINCER

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
ATLANTIC DRAINAGE					
Lehigh, Mauch Chunk, Pa.	<i>Feet</i> 12	17	17	13.5	17
Susquehanna:					
Oneonta, N. Y.	12	17	17	12.3	17
Bainbridge, N. Y.	11	18	21	11.5	19
Binghamton, N. Y.	14	17	17	14.4	17
Towanda, Pa.	16	17	17	16.6	17
Wilkes-Barre, Pa.	20	17	18	22.8	17
Harrisburg, Pa.	17	17	17	17.0	17
Unadilla, New Berlin, N. Y.	8	17	19	9.0	17
James, Columbia, Va.	18	18	18	19.6	18
Saluda, Pelzer, S. C.	7	16	16	7.0	16
MISSISSIPPI DRAINAGE					
Tuscarawas, Gnadenhutten, Ohio.	9	1	3	11.4	1
Little Kanawha:					
Glenville, W. Va.	23	16	17	33.6	16
Creston, W. Va.	20	17	17	23.7	17
Scioto, Circleville, Ohio.	10	(1)	2	11.5	1
Tippecanoe, Norway, Ind.	6	16	16	6.2	16
French Broad, Asheville, N. C.	4	16	16	4.0	16
Big Pigeon, Newport, Tenn.	6	16	16	6.4	16
Illinois:					
Morris, Ill.	13	15	20	14.9	16
Peru, Ill.	14	(1)	7	23.4	Oct. 7.
		14	(2)	19.9	Nov. 19.
Henry, Ill.	10	(1)	1	18.2	Oct. 8-9.
		15	(2)	14.5	Nov. 22.
Peoria, Ill.	18	17	(2)	21.0	Nov. 23-24.
Havana, Ill.	14	(1)	11	23.47	Oct. 12.
		14	(2)	18.6	Nov. 29-30.
Beardstown, Ill.	14	(1)	(2)	26.25	Oct. 12.
Second rise.				20.4	Nov. 29-30.
Pearl, Ill.	12	(1)	12	22.0	Oct. 6-7.
		14	(2)	16.4	Nov. 30.
Petit Jean, Danville, Ark.	20	16	18	21.9	Nov. 17
WEST GULF DRAINAGE					
Guadalupe, Victoria, Tex.	16	1	1	17.8	1
Rio Grande:					
Rio Grande City, Tex.	21	1	1	21.5	1
San Benito, Tex.	21	2	3	23.3	2
PACIFIC DRAINAGE					
Willamette, Eugene, Oreg.	12	30	(1)	14.0	30
Santiam, Jefferson, Oreg.	10	30	30	12.0	30

¹ Continued from last month.

² Continued at end of month.

³ Estimated.

MEAN LAKE LEVELS DURING NOVEMBER, 1926

By UNITED STATES LAKE SURVEY

[Detroit, Mich., December 3, 1926]

The following data are reported in the Notice to Mariners of the above date:

Data	Lakes ¹			
	Superior	Michigan and Huron	Erie	Ontario
Mean level during November, 1926:				
Above mean sea level at New York	Feet 601.75	Feet 578.22	Feet 571.52	Feet 245.24
Above or below—				
Mean stage of October, 1926	+0.07	-0.10	-0.17	+0.31
Mean stage of November, 1925	+0.69	+0.54	+1.07	+0.93
Average stage for November, last 10 years	-0.48	-1.61	-0.14	-0.09
Highest recorded November stage	-1.76	-4.70	-2.15	-2.58
Lowest recorded November stage	+0.69	+0.54	+1.07	+1.83
Average departure (since 1860) of the November level from the October level	-0.17	-0.27	-0.26	-0.25

¹ Lake St. Clair's level: In November, 1926, 573.92 feet.

General summary.—During the first 10 days of the month the generally fair weather was favorable for field work, and good progress was made in seasonal farm operations, except that near the close of this period there was considerable interruption by widespread rains over the eastern half of the country. Temperatures were also favorable for drying out corn in the central valley States, and frost damage was of minor consequence. It continued too dry, however, in the west-central Great Plains, and moisture was needed in parts of the Southeast, while severe drought continued in the western Great Basin.

About the middle of the month generous to heavy rains in the Southeast relieved droughty conditions that had prevailed in much of that section, the rains being especially welcome in Virginia and the Carolinas. Widespread precipitation east of the Great Plains interrupted farm work during the middle portion of the month, but conditions continued especially favorable for livestock over the great western grazing districts.

In the interior valley States the latter part of the month had less precipitation and warmer weather than previously, which made better conditions for seasonal farm operations. In the South, the weather was generally favorable but in the more northern States from the Great Plains eastward cold weather and frequent precipitation were unfavorable. In the south Atlantic area the warm, dry, and sunny weather, following the previous rains, made ideal conditions for winter truck crops and cereals, and there was little interruption to field work. The droughty conditions in the west-central Great Plains continued at the close of the month, but generous to heavy precipitation in nearly all sections west of the Rocky Mountains was favorable.

Small grains.—Early-seeded winter wheat came up to a good stand generally in the central valley States and the Great Plains, and the month, on the whole was favorable for the crop, except that in the extreme western portion of the belt moisture was deficient. About the middle of November precipitation benefited the lower Missouri Valley, and the increased moisture in the far Northwest improved wheat, especially in the North Pacific Coast States. In the eastern Wheat Belt the crop made rather slow growth during the middle and latter parts of the month, but the early-seeded generally did well.

Corn.—During the first part of November the corn crop dried out very well under the influence of the prevailing fair weather, but after the first week rain or snow over much of the belt was unfavorable, and the grain was too damp in many sections for proper cribbing. Some further molding in fields and cribs was reported from the Ohio Valley States, but housing progressed favorably in the Northwest and also in the western portions of the Corn Belt. During the latter part of the month the generally warm weather and occasional rain kept the fields soft and muddy in the East, and husking made rather slow progress, with some sections reporting further deterioration in quality.

Cotton.—Freezing weather in the northeastern portion of the Cotton Belt early in the month damaged some

late cotton bolls and stopped further development, but conditions generally were favorable for picking and ginning, and this work made good progress. Later in the month it was unfavorably cool, cloudy, and wet in the northwestern portion of the belt, and picking was interrupted, especially in Arkansas and eastern Oklahoma where considerable open cotton was blown out by high winds. At the close of the month the crop had been mostly gathered, except in the more northern districts, though there was considerable still out in the northwestern portion of the belt.

Miscellaneous crops.—In the central and eastern portions of the country meadows and pasture lands continued generally good for the season, but in the more western States unfavorable drought persisted and heavy feeding of livestock was necessary in some sections. The weather was favorable for truck in the winter trucking districts, while citrus fruits in Florida were favorably affected by prevailing conditions. The latter part of the month was favorable for sugar cane in Louisiana, especially where windrowed, but harvest made good advance.

CLIMATOLOGICAL TABLES¹ CONDENSED CLIMATOLOGICAL SUMMARY

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data as indicated by the several headings.

The mean temperature for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Condensed climatological summary of temperature and precipitation by sections, November, 1926

Section	Temperature								Precipitation							
	Section average	Departure from the normal	Monthly extremes						Section average	Departure from the normal	Greatest monthly		Least monthly			
			Station	Highest	Date	Station	Lowest	Date			Station	Amount	Station	Amount		
	°F.	°F.		°F.				°F.	In.	In.		In.		In.		
Alabama	50.6	-3.5	2 stations	83	26	Valley Head	20	11	4.92	+1.84	Mobile	8.40	Evergreen	1.35		
Arizona	53.6	+2.1	6 stations	91	24	Bright Angel	0	15	0.22	-0.71	Bright Angel	1.73	31 stations	0.00		
Arkansas	47.2	-4.4	8	81	6	Dutton	10	19	3.33	-0.32	Black Rock	5.59	Amity	0.87		
California	56.6	+4.2	Indio	101	7	Helm Creek	-2	13	7.69	+5.23	Upper Mattole	35.65	4 stations	0.00		
Colorado	35.4	+0.7	2 stations	78	5	Dillon	-15	18	0.96	+0.10	Savage Basin	4.70	Rush	0.00		
Florida	62.6	-2.1	Saint Cloud	91	1	Garniers	24	19	3.12	+0.82	Garniers	6.15	Fort Pierce	0.71		
Georgia	51.7	-2.8	2 stations	87	8	Clayton	15	6	3.68	+1.03	Clayton	6.85	Augusta	1.74		
Idaho	39.4	+3.9	Rupert	73	5	Stanley	-1	17	4.05	-2.11	Pyle Creek	11.26	Mud Lake	0.36		
Illinois	37.7	-4.4	Harrisburg	71	14	White Hall	1	22	3.79	+1.37	Elgin	6.42	Danville	1.48		
Indiana	39.5	-2.7	Vevay	78	15	Mount Vernon	5	22	2.10	-0.99	Thayer	4.41	Huntington	0.89		
Iowa	32.6	-4.0	3 stations	71	25	Little Sioux	-3	21	2.10	+0.54	Davenport	3.88	Grinnell	0.68		
Kansas	40.3	-3.8	2 stations	82	6	Horton (near)	3	21	1.42	+0.24	Hutchinson	3.74	Elkhart	0.25		
Kentucky	42.9	-3.4	Dix Dam	80	14	Glasgow	0	22	3.41	-0.12	Junction City	5.57	Lockport	1.23		
Louisiana	54.8	-4.1	Schriever	84	14	Tallulah	20	19	3.76	+0.27	Angola	6.37	Burrwood	1.37		
Maryland-Delaware	43.3	-1.3	Rock Hill, Md.	78	15	2 stations	7	12	4.33	+1.79	Emmitsburg, Md.	7.54	Friendship, Md.	2.19		
Michigan	33.6	-2.7	2 stations	68	24	2 stations	-9	11	3.74	+1.27	Kent City	6.68	Saint James	0.97		
Minnesota	23.9	-6.2	New Ulm	66	25	Warroad	-28	27	1.56	+0.40	Pigeon River Bridge	4.50	Alexandria	0.24		
Mississippi	50.7	-4.4	Bay Saint Louis	82	26	3 stations	20	19	4.26	+0.79	Bay Saint Louis	6.12	Poplarville	1.99		
Missouri	39.6	-4.9	Marshall	78	25	Bethany	0	21	2.98	+0.63	Williamsville	6.18	Bethany	0.77		
Montana	32.2	+0.4	Sun River Canyon	76	5	Busby	-22	21	1.52	+0.66	Hebgen Dam	6.28	Conrad	0.08		
Nebraska	33.8	-2.9	Dumas	79	5	2 stations	-13	21	1.54	+0.80	Virginia	4.57	Taylor	T.		
Nevada	45.7	+5.0	2 stations	86	26	Rye Patch	8	14	1.47	+0.91	Carson City	5.28	Logandale	0.11		
New England	38.2	+0.5	2 stations	72	18	Pittsburg, N. H.	-5	28	4.85	+1.41	Gardiner, Me.	9.28	Garfield, Vt.	2.33		
New Jersey	42.5	-0.4	2 stations	76	29	Belleplain	8	12	4.04	+0.93	Chatham	7.19	Atlantic City	2.44		
New Mexico	43.9	+1.0	Logan	83	16	2 stations	-1	25	0.17	-0.44	Dulce	1.43	36 stations	0.00		
New York	38.3	+0.7	Ohioville	74	8	Lake Placid Club	-4	28	4.09	+1.22	2 stations	7.25	Chazy	1.25		
North Carolina	47.4	-2.2	Rockingham	80	14	Banners Elk	8	22	4.22	+1.83	Highlands	7.78	Lumberton	1.99		
North Dakota	21.5	-5.1	2 stations	68	25	Valley City	-23	26	0.65	+0.07	Larimore	2.00	Lisbon	T.		
Ohio	40.3	-1.2	Middleport	77	15	McArthur	11	12	2.15	-0.48	Toboso	4.09	New Bremen	0.21		
Oklahoma	47.5	-2.9	Sulphur	85	25	Goodwell	8	20	1.05	-1.11	Wyandotte	5.28	Walters	0.00		
Oregon	44.7	+3.5	Marshfield	78	1	Blitzen	8	13	7.52	+2.76	Valsetz	26.76	Blitzen	1.50		
Pennsylvania	40.4	-0.6	2 stations	79	15	Saegertown	-1	12	4.49	+1.68	South Sterling	9.84	Newell	2.00		
South Carolina	50.0	-3.6	Georgetown	85	8	Santuck	17	12	3.05	+0.74	Caesar's Head	6.11	Aiken	1.36		
South Dakota	29.0	-4.6	Ottumwa	75	5	Elm Springs	-14	21	0.78	+0.15	Sioux Falls	2.55	McIntosh	T.		
Tennessee	44.4	-4.2	Sevierville	78	14	2 stations	12	22	5.07	+1.73	Decatur	7.20	Halls	2.80		
Texas	55.1	-2.0	Victoria	91	7	2 stations	12	18	1.38	-0.96	Lufkin	4.60	8 stations	0.00		
Utah	41.4	+4.2	Leeds (near)	88	7	2 stations	2	15	1.40	+0.44	Silver Lake	8.82	Hanksville	0.00		
Virginia	44.2	-2.2	Diamond Springs	79	9	Burkes Garden	0	22	4.41	+1.99	Mount Weather	7.07	Newport News	1.82		
Washington	42.4	+2.8	La Center	74	1	Republic	10	20	5.57	+0.56	Cushman Dan	21.09	Port Townsend	1.10		
West Virginia	40.7	-2.0	Fairmont	82	15	Bayard	4	12	3.59	+0.84	Sutton	6.67	Bluefield	1.59		
Wisconsin	28.4	-5.2	2 stations	67	26	Rest Lake	-10	11	2.96	+1.16	Plum Island	7.53	Ladysmith	1.09		
Wyoming	34.0	+2.0	Pinebluff	75	4	South Pass City	-21	17	1.04	+0.49	Moran	5.79	Barnum	0.00		
Alaska (October)	39.8	+3.8	Wonder Lake	73	12	Candle	-8	31	10.66	+1.60	Latouche	34.75	Fairbanks	0.23		
Hawaii	72.6	+0.8	2 stations	92	25	Kula Sanitarium	47	26	3.99	-4.54	Honomanu Valley	16.55	13 stations	0.00		
Porto Rico	77.1	+0.4	Comerio Falls	96	12	Aibonito	53	22	4.30	-2.91	Maricao	11.45	Mona Island	0.34		

¹ For description of tables and charts, see REVIEW, January, 1926, p. 32.

² Other dates also.